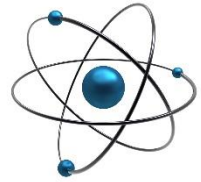




# Ballymena Academy Physics

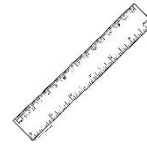
## Year 10 Revision Checklist

Winter 2024



Please ensure you bring the following items with you on the day of the exam:

- Pen(s) and pencil(s).
- 30 cm ruler
- Scientific calculator



### The following is a list of topics which will be examined:

Please refer to the individual pupil notes booklets for a full list of learning outcomes.

### Nuclear Physics:

- Structure of the atom – relative mass, charge and location of particles.
- Atomic notation. A, Z numbers.
- Isotopes.
- Radioactivity - Why some nuclei are radioactive.
- Types of radioactive emission – Alpha, Beta & Gamma.
- Penetrating power of Alpha, Beta & Gamma.
- Radioactive decay equations.
- The definition of activity and half-life.
- Activity and half-life calculations.
- Half-life graphs.
- Nuclear fission process.



### Forces (Learning outcomes 1-11 only):

- What a force is and what it can do.
- Different types of forces.
- Balanced and unbalanced forces.  
(Calculating resultant force)
- Friction – Factors affecting friction – ways to reduce friction.

